

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN041619\
 Data File : VN055077.D
 Acq On : 16 Apr 2019 14:41
 Operator : JC/SP
 Sample : VN0416WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0416WBSD01

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 4:23:07 AM

Quant Time: Apr 17 02:05:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:55:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	72094	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	398404	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	341738	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	166182	30.24	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.80%
60) 4-Bromofluorobenzene	12.40	95	156902	29.49	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.30%
63) Toluene-d8	10.09	98	501143	30.84	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	83421	19.674	ug/l 99
3) Chloromethane	2.06	50	111248	19.422	ug/l 96
4) Vinyl Chloride	2.19	62	95767	19.334	ug/l 99
5) Bromomethane	2.57	94	56308	19.653	ug/l 90
6) Chloroethane	2.71	64	54736	19.731	ug/l 96
7) Trichlorofluoromethane	3.02	101	123673	19.539	ug/l 100
8) Diethyl Ether	3.41	74	40646	20.000	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	66914	19.340	ug/l 96
10) 1,1-Dichloroethene	3.73	96	61973	19.373	ug/l 98
11) Methyl Iodide	3.95	142	101673	21.003	ug/l 99
12) Methyl Acetate	4.33	43	90736	23.061	ug/l 97
13) Acrolein	3.61	56	32524	94.316	ug/l 97
14) Acrylonitrile	4.99	53	173201	107.444	ug/l 97
15) Acetone	3.82	58	31621	79.271	ug/l 95
16) Carbon Disulfide	4.04	76	198784	18.526	ug/l 99
17) Allyl chloride	4.32	41	162422	20.618	ug/l 98
18) Methylene Chloride	4.55	84	94553	19.996	ug/l 97
19) trans-1,2-Dichloroethene	5.04	96	83433	20.036	ug/l 97
20) Diisopropyl ether	5.96	45	327333	20.511	ug/l 99
21) 1,1-Dichloroethane	5.85	63	174303	20.449	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	98725	20.397	ug/l 97
23) tert-Butyl Alcohol	4.82	59	30172	117.383	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	229296	21.347	ug/l # 67
25) Chloroform	7.37	83	167198	20.478	ug/l 99
26) Cyclohexane	7.65	56	153367	19.392	ug/l # 96
29) 1,1-Dichloropropene	7.79	75	122763	19.786	ug/l 98
30) 2-Butanone	6.85	43	208016	100.999	ug/l 99
31) 2,2-Dichloropropane	6.82	77	107728	18.864	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	133031	20.285	ug/l 98
33) Carbon Tetrachloride	7.77	117	111519	19.641	ug/l 97
34) Benzene	8.04	78	366949	19.957	ug/l 98
35) Methacrylonitrile	7.18	41	47603	19.610	ug/l 93
36) 1,2-Dichloroethane	8.12	62	125854	20.027	ug/l 100
37) Trichloroethene	8.83	130	90982	19.410	ug/l 88
38) Methylcyclohexane	9.08	83	129402	17.984	ug/l 99
39) 1,2-Dichloropropane	9.12	63	104448	20.572	ug/l 98
40) Dibromomethane	9.21	93	58366	20.338	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	115713	19.537	ug/l	99
42) Vinyl Acetate	5.90	43	1075134	103.256	ug/l	100
43) Ethyl Acetate	6.94	43	92709	22.095	ug/l	100
44) Isopropyl Acetate	8.17	43	150625	21.183	ug/l	98
45) 1,4-Dioxane	9.20	88	16422	416.868	ug/l	99
46) Methyl methacrylate	9.20	41	79634	21.649	ug/l	95
47) n-amyl Acetate	12.07	43	112833	21.544	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	104340	19.184	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	132868	19.789	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	81097	20.806	ug/l	99
51) Ethyl methacrylate	10.43	69	93613	20.148	ug/l	95
52) 1,3-Dichloropropane	10.71	76	139364	20.405	ug/l	100
53) Dibromochloromethane	10.90	129	77562	19.318	ug/l	99
54) 1,2-Dibromoethane	11.00	107	74186	20.274	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	180927	93.144	ug/l	99
56) Bromoform	12.13	173	46552	18.453	ug/l #	97
58) 4-Methyl-2-Pentanone	9.99	43	442378	112.251	ug/l	99
59) 2-Hexanone	10.75	43	266303	106.368	ug/l	99
61) Tetrachloroethene	10.63	164	86969	19.555	ug/l	95
62) Toluene	10.15	91	380592	20.212	ug/l	99
64) Chlorobenzene	11.43	112	229915	20.225	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	82995	20.528	ug/l	99
66) Ethyl Benzene	11.51	91	403003	19.966	ug/l	100
67) m/p-Xylenes	11.62	106	300713	40.080	ug/l	98
68) o-Xylene	11.95	106	147301	19.867	ug/l	97
69) Styrene	11.96	104	225987	19.628	ug/l	98
70) Isopropylbenzene	12.25	105	387414	19.543	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	97294	21.458	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	84052m	22.447	ug/l	
73) Bromobenzene	12.53	156	92344	19.708	ug/l	99
74) n-propylbenzene	12.59	91	436605	19.673	ug/l	99
75) 2-Chlorotoluene	12.67	91	270675	20.222	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	308156	19.227	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	18775	19.892	ug/l	94
78) 4-Chlorotoluene	12.77	91	251283	19.703	ug/l	99
79) tert-butylbenzene	12.99	119	270571	19.511	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	308995	19.626	ug/l	100
81) sec-Butylbenzene	13.17	105	350485	18.915	ug/l	99
82) p-Isopropyltoluene	13.29	119	295819	18.916	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	153065	19.526	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	138530	18.597	ug/l	100
85) n-Butylbenzene	13.61	91	218203	17.517	ug/l	99
86) Hexachloroethane	13.87	117	45040	17.991	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	154082	20.071	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	12432	20.630	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	56741	16.532	ug/l	96
90) Hexachlorobutadiene	15.01	225	45252	18.084	ug/l	97
91) Naphthalene	15.13	128	124529	17.328	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	59536	17.345	ug/l	98

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(#) = qualifier out of range (m) = manual integration (+) = signals summed

